

## SKILLS

<b>Tools and Languages</b>	Python, Git, LaTeX, Flutter, ReactJS, C, MySQL
<b>Quantitative Research</b>	Numpy, Pandas, scikit-learn, PyTorch, Tensorflow, Machine Learning
<b>Communication</b>	English, Hindi, Kannada, Sanskrit

## TECHNICAL EXPERIENCE

**Product Engineering Intern** Jun 2024 — July 2024  
*Sprinklr* Gurgaon, India

- Built a ASR Transcription Evaluation Pipelines using NLP
- Developed a custom scoring metric for evaluating transcripts in production
- **Improved** productivity of product managers by **2x**

**Research Intern** Dec 2023 — Present  
*Harvard Medical School* Remote

- Working on Language in the brain and AI with [Prof Gabriel Kreiman](#)

**Intern** Jun 2023 — Present  
*Deep Forest Sciences* Remote

- Contributed to **open-source** drug discovery toolkit - [Deepchem](#) & migrated models to **PyTorch**, boosting user base by **92%**
- Building Tools for **AI aided Drug Discovery**
- Semifinalist at **Standard Industries Chemical Innovation Challenge**, won prize money of **\$10,000**

**Student Researcher** 2022 — Present  
*APPCAIR, Birla Institute of Technology & Science, Pilani* Goa

- **Examining** the usage of **Large Language Models** to **generate novel molecules for drug discovery** and predict their **synthesizability**
- **Devised** deep learning methods to Predict **Protein Residue binding**
- Surveyed the usage of **BERT** and **Transformer** based architectures to predict Protein Residue binding locations

**Research Intern** 2021 — 2023  
*Amrita Vishwa Vidyapeetham* Bangalore, Karnataka

- Published a Paper Titled "**Speech to Equation Conversion using a PoE Tagger**"
- Built a **Novel architecture** to deal with variability in the way math equations are spoken

**Data Science Intern** Jun 2022 — Aug 2022  
*Skan.ai* Bangalore, Karnataka

- Explored and implemented Data anonymization techniques using Machine Learning
- **Developed AI/ML pipeline for real time data anonymization** for process mining resulting in **30% performance improvement**

**Research Intern** Feb 2022 — May 2022  
*Pixis.ai* Bangalore, Karnataka

- **Optimised Algorithmic Trading App** to identify **arbitrage opportunities** to do a round trip trading with different currencies from **30 min to 2 sec**

## EDUCATION

<b>BE Computer Science</b> , Birla Institute of Technology and Science, Pilani – Goa Campus	2021-Present
<b>MSc Chemistry</b> , Birla Institute of Technology and Science, Pilani – Goa Campus	2020-Present
<i>Sri Kumarans Childrens Home CBSE</i>	2008 — 2020

## PUBLICATIONS

- V. Shreyas**, J. Siguenza, K. Bania, B. Ramsundar "Open Source Molecular Processing Pipeline for Generating Molecules" *Molecular Machine Learning Conference (MoML)* 2024
- V. Sathyanarayana and **V. Shreyas** "Prompting with Justification and Confidence: Extracting Information and Relationship using LLMs" (Under Review)
- V. Shreyas** and A. Swati, "Predicting ATP binding sites in protein sequences using Deep Learning and Natural Language Processing" *3rd Annual AAAI Workshop on AI to Accelerate Science and Engineering (AI2ASE)*, 2024.
- P. Basa Pati and **V. Shreyas**, "Speech to Equation Conversion using a PoE Tagger," *2022 IEEE 7th International conference for Convergence in Technology (I2CT)*, 2022, pp. 1-4, doi: 10.1109/I2CT54291.2022.9824252.

## PROJECTS

---

### Metamorph - Generative AI

May 2023 — Present

Building an **emotionally responsive Humanoid** bot with **knowledge capture** , **speech text generation** using Generative Large Language Models

## ACTIVITIES

---

### ML Lead, Google Developer Student Clubs, BITS Goa

2022 — 2023

- Guided a group of 25+ ML enthusiasts , conducted weekly ML training sessions
- Organized hackathons , mentored in ML model building , and fostered exploration in ML research.

### Sub-Coordinator, Srutilaya, BITS Goa

2022 — 2023

- Awarded Certificate of Recognition by the Chief Minister of Goa for Performing a cultural show in the QS India Summit 2023, held in Goa.
- Organized various classical concerts and Led a team of 25+ to bring in Indian Oil and First Edition Arts as sponsors for the event Sursangam which had a footfall of 500 people and 300 Live-stream attendees . Increased revenue of the club by 100

## CERTIFICATIONS

---

**Machine Learning** *Stanford University, Coursera. May 2022*

**Neural Networks and Deep Learning** *DeepLearning.ai, Coursera. May 2022*

**Natural Language Processing with Deep Learning** *Stanford University. May 2022*

**Fundamentals of Accelerated Data Science with RAPIDS** *Nvidia DLI. Issued July 2021* [Certificate](#)

**Python 3 Programming Specialization** *University of Michigan, Coursera. December 2020*

**Introduction to Artificial Intelligence (AI)** *IBM, Coursera. Issued November 2020* [Certificate](#)

**What is Data Science?** *IBM, Coursera. Issued October 2020* [Certificate](#)